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AN 129:164740 HCA
 TI **Copper** alloy articles having improved blanking workability for
 electric and electronic devices and their manufacture
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 PA Furukawa Electric Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 17 pp.
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PI	JP 10195562	A2	19980728	JP 1997-1802	19970109
AB	<p>The Cu alloy articles contain 0.002-0.5% of Pb, Bi, Ca, Sr, Ba, and/or Te. The following alloy articles contg. 0.002-0.5% of Pb, Bi, Ca, Sr, Ba, and/or Te are also claimed: (1) Cu-Zn alloys, (2) Cu-Zr alloys having Zr content 0.02-0.2%, (3) Cu-Sn alloys, (4) Cu-Sn-Ni alloys, (5) Cu-Sn-Ni-P alloys contg. Sn 1.5-2.5, Ni 0.1-0.3, and P .ltoreq.0.15%, (6) Cu-Fe alloys, (7) Cu-Fe-P alloys having Fe content 0.02-0.5% and P content 0.01-0.2%, (8) Cu-Fe-Zn-P alloys contg. Fe 1.0-2.6, Zn 0.05-2.0, and P 0.015-0.15%, (9) Cu-Cr alloys, or (10) Cu-Cr-Zr alloys. The title articles are manufd. by casting, hot-working, and cold-working the alloys having the above compns. at the following conditions: (a) cooling rate in casting .gtoreq.5.degree./s, (b) hot-working at 700-1000.degree., (c) rapid-cooling after hot-working at rate .gtoreq.10.degree./s, and (d) heating at 300-600.degree. for 30 s to 6 h during cold-working. The microalloying elements form compds. dispersed in the Cu matrixes, resulting in improved workability in blanking of the alloy articles.</p>				